

Nomenclature List

- 10 rotor assembly
- 12 casing
- 12' casing (cover portion)
- 14 vane
- 16, 18 pair of rotor assemblies
- 20 casing
- 20' casing (cover portion)
- 22 intermeshing gear teeth
- 24 resilient seal
- 26 resilient vane-slot seal
- 28 vane-receiving slots
- 30 upper and lower seal elements
- 32 additional sealing elements
- 34 guide track implemented as a channel
- 36 track-engaging features implemented as a slider block
- 50 substantially rigid contact element
- 52 elastomeric material mounting
- 54 integral hinge
- 56 sealing edge
- 60 floating seal plate
- 62 elastomeric O-ring

FIG. 1 (PRIOR ART)

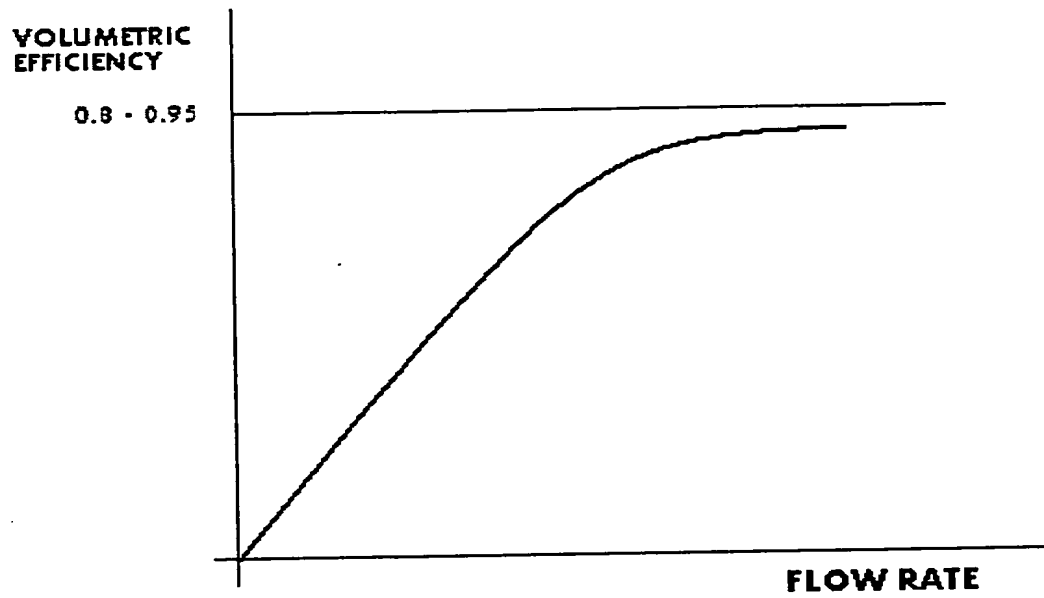


FIG. 2

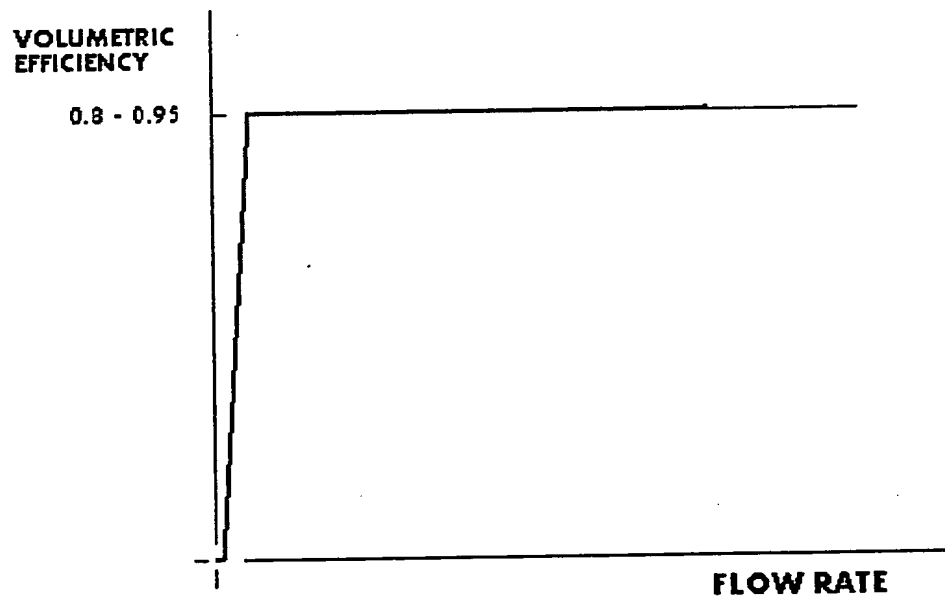


FIG. 3A

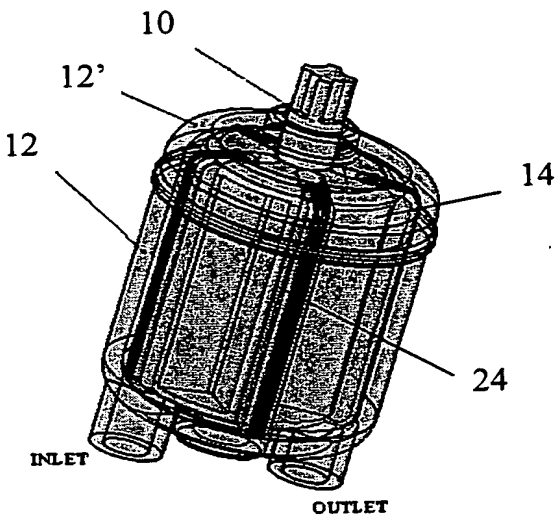


FIG. 3B

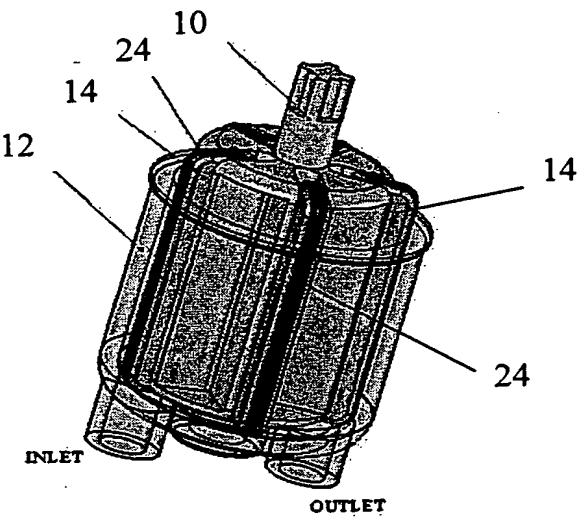


FIG. 3C

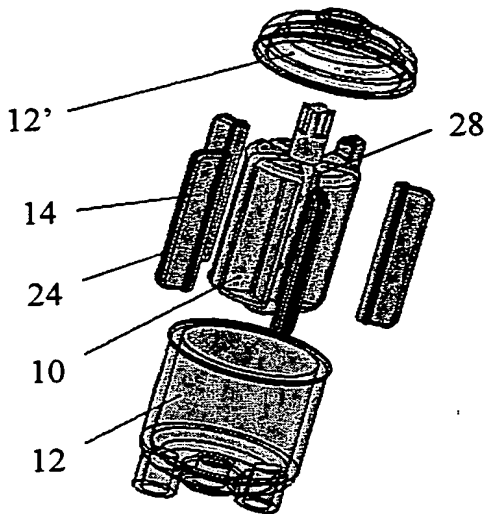


FIG. 3D

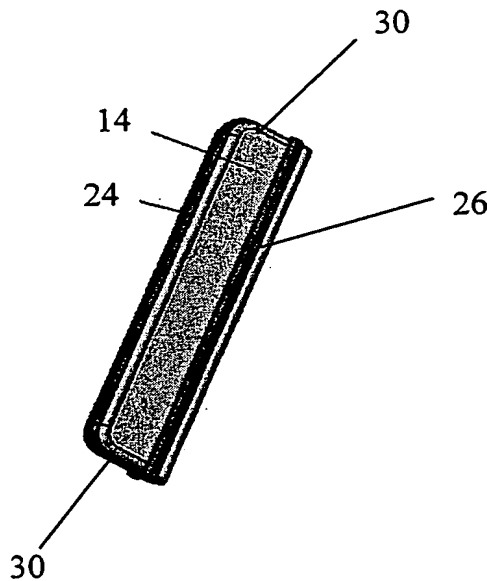


FIG. 4A

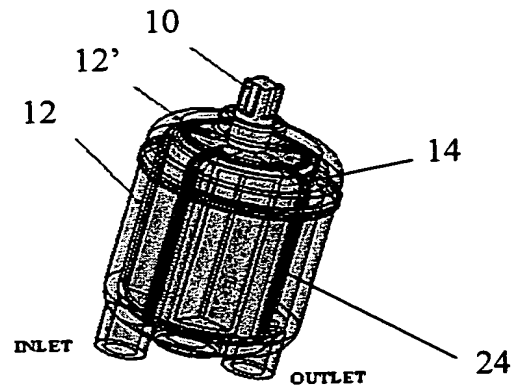


FIG. 4B

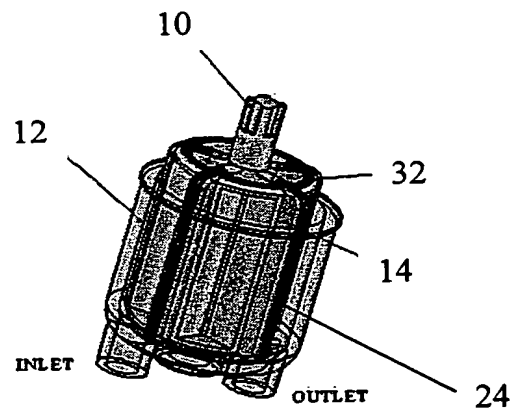


FIG. 4C

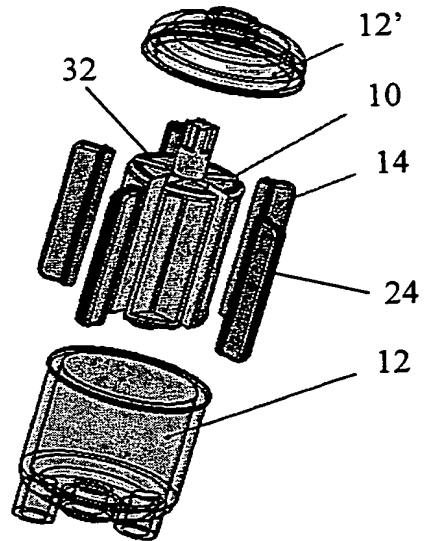


FIG. 4D

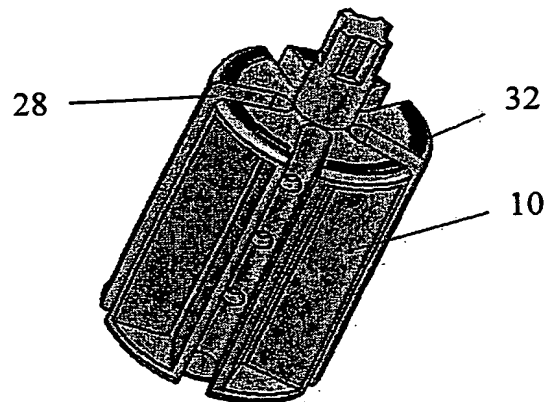


FIG. 5A

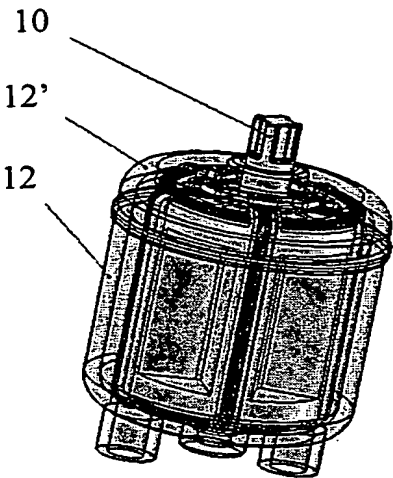


FIG. 5B

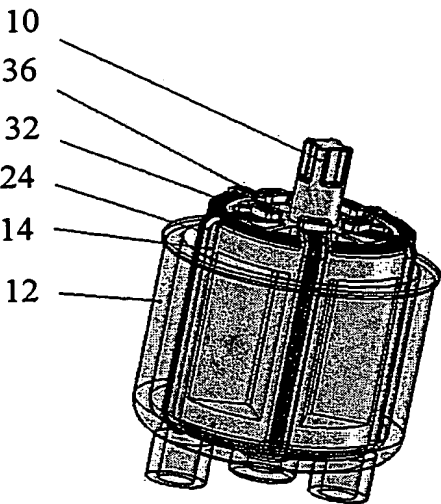


FIG. 5C

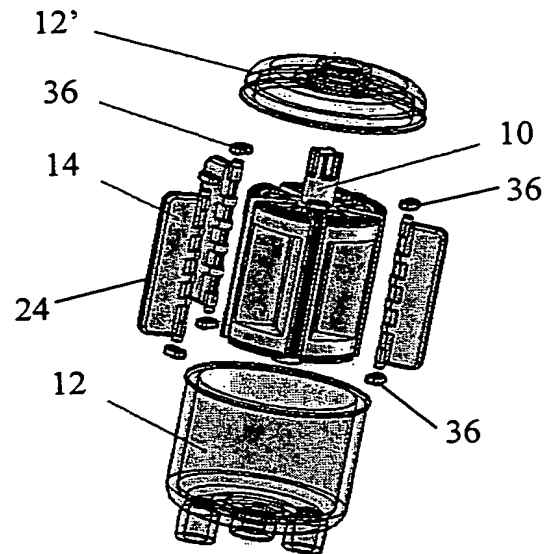


FIG. 5D

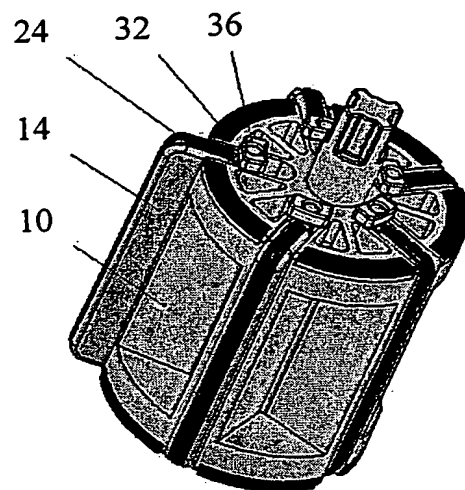


FIG. 5E

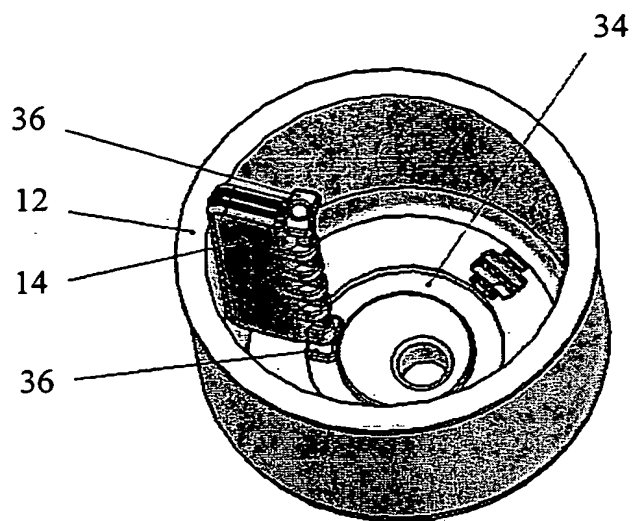


FIG. 6A

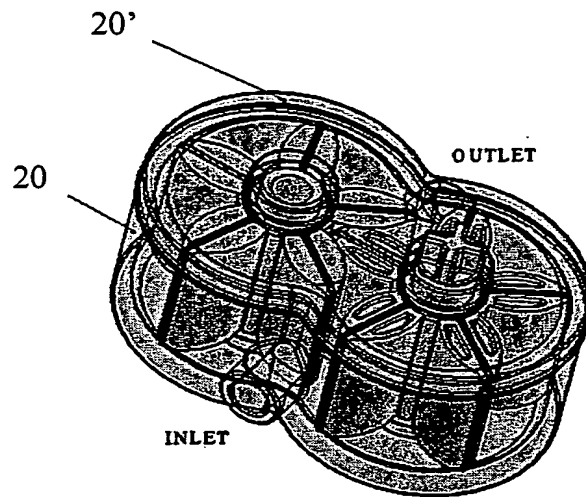


FIG. 6B

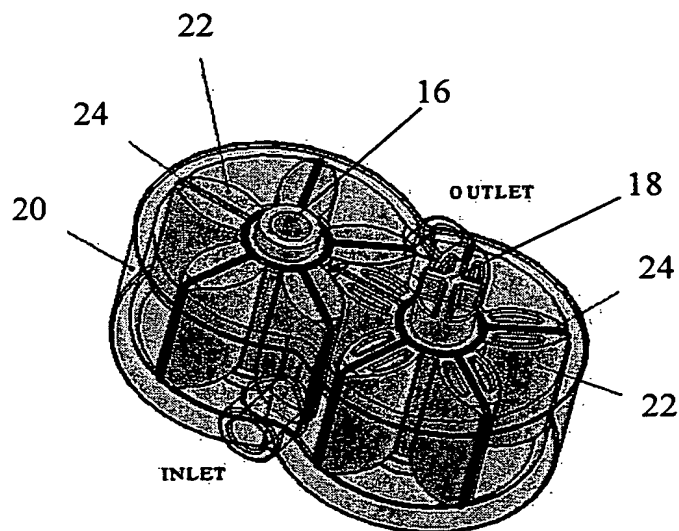


FIG. 6C

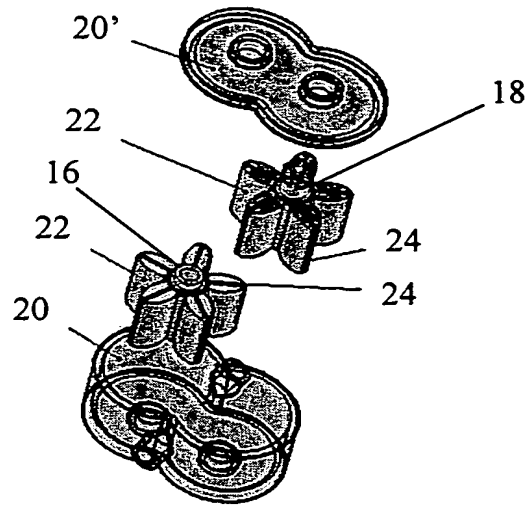


FIG. 6D

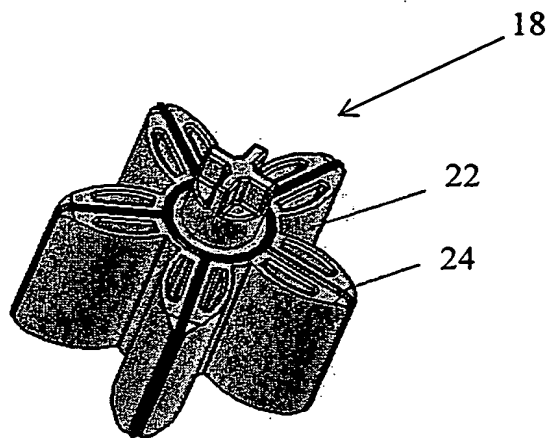


FIG. 7

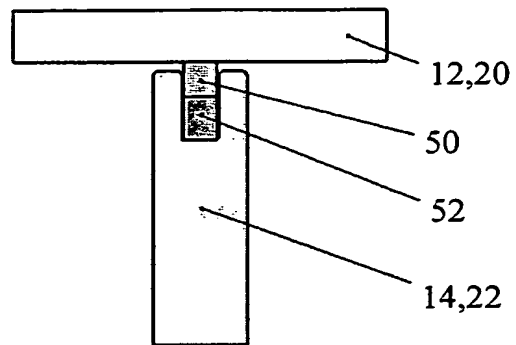


FIG. 8

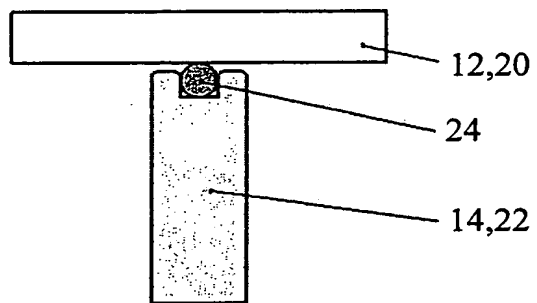


FIG. 9

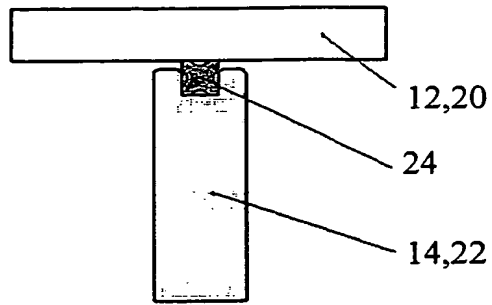


FIG. 10

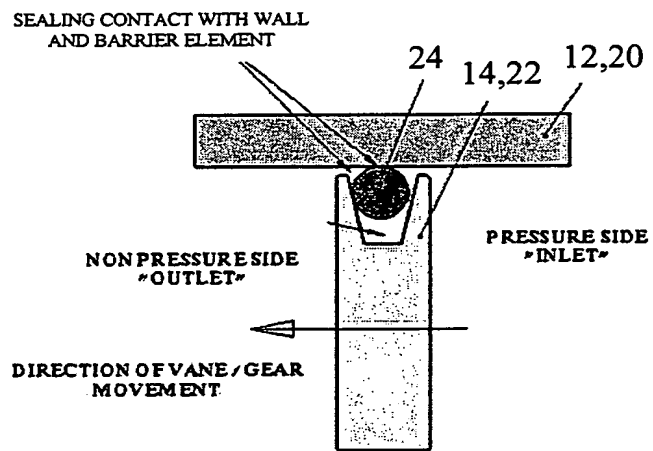


Diagram illustrating a rectangular frame assembly with various seals and floating plates. The diagram includes the following labels and components:

- ELASTOMERIC SEAL PROVIDES SEALING BETWEEN CASING AND FLOATING PLATE AND PRESSES PLATE AGAINST VANE TO PROVIDE SEALING** (Label 62)
- CASING - SIDE** (Label 12,20)
- SEALING BETWEEN VANE AND SIDE, USING ONE OF THE SEALING OPTIONS LOCATED ON VANE AS DESCRIBED BEFORE**
- THE CONTACT BETWEEN VANE AND FLOATING PLATE PROVIDES SEALING**
- UPPER FLOATING PLATE PRESSED TO VANE BY AN ELASTOMERIC SEAL OR BY WATER PRESSURE** (Label 60)
- CASING - BOTTOM**
- LOWER FLOATING PLATE** (Label 60)
- ELASTOMERIC SEAL** (Label 62)
- 14,22** (Label pointing to the central rectangular area)